

We claim:

1. A fatliquoring agent for the production and/or treatment of leather and hides, comprising

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A) a mixture of modified natural oils containing

- a1) at least one oxidized sulfited natural oil and
- a2) at least one oxidized sulfated natural oil,

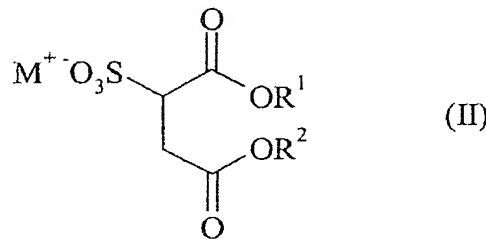
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B) an emulsifier mixture containing

- b1) at least one C₆- to C₁₄-alkanol alkoxylated with from 4 to 12 alkylene oxide units,
- b2) at least one C₁₂- to C₂₄-alkanol alkoxylated with from 15 to 40 alkylene oxide units and
- b3) at least one C₁₂- to C₂₄-alkanol alkoxylated with from 50 to 100 alkylene oxide units, and

20 C) if required, a linear, cyclic or branched polymer of a dialkylsilanolane SiR₂(OH)₂, where R is methyl, ethyl, n-propyl or phenyl, and/or

25 D) if required, a compound of the formula (II)



30 where R¹ and R² are identical or different and, independently of one another, are selected from the group consisting of H, M, saturated linear aliphatic C₁- to C₁₈-alkyl and saturated branched aliphatic C₃- to C₁₈-alkyl, where at least one of the two radicals R¹ and R² ≠ H, M with M = alkali metal or 0.5 alkaline earth metal, and
 M⁺ is selected from the group consisting of H⁺, NH₄⁺, alkali metal⁺ and 0.5 alkaline earth metal⁺.

2. The fatliquoring agent as claimed in claim 1, wherein the oxidized sulfited natural oil is obtained by oxidizing natural oil so that the difference Δd between the specific gravities of the unoxidized and oxidized natural oil is from 0.01 to 0.1, preferably from 0.03 to 0.05, g/ml and then reacting the natural oil oxidized in this manner with from 2 to 8, preferably from 3 to 5, % by weight, based on its weight, of a sulfite - calculated as sodium bisulfite ($Na_2S_2O_5$),
5 and
10 wherein fatliquoring agent as claimed in any of claims 1 to 3, wherein the oxidized, sulfated natural oil is obtained by oxidizing natural oil so that the difference Δd between the specific gravities of the unoxidized and oxidized natural oil is from 0.01 to 0.1, preferably from 0.03 to 0.05, g/ml and then reacting the natural oil oxidized in this manner with from 3 to 9, preferably
15 from 4 to 8, % by weight, based on its weight, of H_2SO_4 - calculated as 98% strength by weight aqueous H_2SO_4 solution.
3. The fatliquoring agent as claimed in any of claims 1 or 2, wherein the emulsifier mixture B contains from 20 to 60, preferably from 25 to 50, particularly preferably from 28 to 40, % by weight of component b1 or of a mixture of the components b1, from 20 to 70, preferably from 25 to 60, particularly preferably from 30 to 45, % by weight of a component b2 or of a mixture of the components b2 and from 10 to 50, preferably from 15 to 40, particularly preferably from 22 to 32, % by weight of a component b3 or of a mixture of the components b3 - based in each case on the total weight of
25 the emulsifier mixture.
4. The fatliquoring agent as claimed in any of claims 1 to 3, wherein component b1 is at least one C_8 - to C_{12} -alkanol alkoxyolated with from 4 to 12 alkylene oxide units, preferably at least one C_{10} -alkanol alkoxyolated with
30 from 4 to 12 alkylene oxide units, and/or component b2 is at least one C_{14} - to C_{20} -alkanol alkoxyolated with from 15 to 40 alkylene oxide units, preferably a C_{16} - to C_{18} -alkanol alkoxyolated with from 15 to 40 alkylene oxide units, and/or component b3 is at least one C_{14} - to C_{20} -alkanol alkoxyolated
35 with from 50 to 100 alkylene oxide units, preferably a C_{16} - to C_{18} -alkanol alkoxyolated with from 50 to 100 alkylene oxide units.

5. The fatliquoring agent as claimed in any of claims 1 to 4, wherein the polymer of the formula (I) has a viscosity of from 30 to 1 000, preferably from 80 to 500, mPa·s, measured in the pure substance at 20°C.
- 5 6. The fatliquoring agent as claimed in any of claims 1 to 5, wherein, in the compound of the formula (II), R¹ and R², independently of one another, are selected from the group consisting of methyl, ethyl, propyl, isopropyl, n-butyl, sec-butyl, tert-butyl, n-pentyl, isopentyl, n-hexyl, 2-ethylhexyl, n-octyl, n-dodecyl, n-tridecyl, n-tetradecyl and n-hexadecyl and/or M⁺ is H⁺ or Na⁺.
- 10 7. The fatliquoring agent as claimed in any of claims 1 to 6, which contains from 45 to 98, preferably from 70 to 96, particularly preferably from 78 to 95, % by weight of a component A or of a mixture of components A, from 2 to 15, preferably from 3 to 10, particularly preferably from 3 to 8, % by weight of a component B or of a mixture of components B, and from 0 to 20, preferably from 0.5 to 10, particularly preferably from 1 to 7, % by weight of a component C or of a mixture of components C, and from 0 to 20, preferably from 0.5 to 10, particularly preferably from 1 to 7, % by weight of a component D or of a mixture of components D, based in each case on the total weight of the fatliquoring agent.
- 15 8. Aqueous composition for the production and/or treatment of leather and hides, comprising 40 to 80 % by weight of a fatliquoring agent as claimed in any of claims 1 to 7.
- 20 9. The use of a fatliquoring agent as claimed in any of claims 1 to 7 or of a composition as claimed in claim 8 the leather or hides are treated with aqueous fatting liquors containing fatliquoring agents as claimed in any of claims 1 to 7 in the production and/or treatment of leather and hides.
- 25 30 10. A process for fatliquoring in the production and/or treatment of leather and hides, wherein from 40 to 80, preferably from 50 to 80, particularly preferably from 60 to 75, % by weight of a fatliquoring agent as claimed in any of claims 1 to 11.